

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Makoto TANIGUCHI

Application No.: 09/736,251

Filed: December 15, 2000

For: CONTROL DEVICE FOR VEHICULAR AC GENERATOR, AND CONNECTOR

Group Art Unit: 2834

Examiner: P. Cuevas

Docket No.: 111275

Docket No.: 111275

SUBMISSION OF POWER OF ATTORNEY BY ASSIGNEE

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Enclosed is a Power of Attorney by Assignee to be made of record in the above-

identified application.

In the event of any nonpayment or improper payment of a required fee, the

Director is authorized to charge or to credit OLIFF & BERRIDGE, PLC Deposit Account No.

15-0461 as required to correct the error.

Respectfully submitted,

James A. Oliff

Registration No. 27,075

Thomas J. Pardini
Registration No. 30,411

IAO:TJP/kaw

Date: January 30, 2002

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

**DEPOSIT ACCOUNT USE
AUTHORIZATION**
Please grant any extension
necessary for entry;
Charge any fee due to our
Deposit Account No. 15-0461

PATENT APPLICATION



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

POWER OF ATTORNEY BY ASSIGNEE

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Denso Corporation is the Assignee of the entire right, title and interest in the patent applications identified in the attached Appendix A by virtue of Assignments recorded at the locations identified in the Appendix. Additionally, Denso Corporation is the Assignee of the entire right, title and interest in the following three patent applications for which Assignments have been filed, but the original Assignments, indicating the dates and reel and frame numbers of recordation, have not yet been returned.:.

<u>U.S. Patent Application No.</u>	<u>Filed</u>	<u>Inventors</u>
09/891,222	June 26, 2001	Keiji TAKAHASHI et al.
09/925,373	August 10, 2001	Naoki YAMAMOTO et al.
09/893,417	June 29, 2001	Makoto TANIGUCHI et al.

Copies of the Recordation Cover Sheets and executed Assignments as filed for these applications are attached hereto.

The undersigned is authorized to act on behalf of Denso Corporation; has reviewed the evidentiary documents in the chain of title; and certifies that to the best of the Assignee's knowledge and belief, title is in the Assignee.

Denso Corporation hereby revokes all prior powers of attorney and appoints the following as attorneys of record with full power of substitution and revocation to prosecute this application and all continuations and divisions thereof, and to transact all business in the Patent and Trademark Office:

James A. Oliff, Registration No. 27,075;
William P. Berridge, Registration No. 30,024;
Kirk M. Hudson, Registration No. 27,562;
Thomas J. Pardini, Registration No. 30,411;
Edward P. Walker, Registration No. 31,450;
Robert A. Miller, Registration No. 32,771;
Mario A. Costantino, Registration No. 33,565;
Stephen J. Roe, Registration No. 34,463;
Joel S. Armstrong, Registration No. 36,430;
Christopher W. Brown, Registration No. 38,025;
Richard E. Rice, Registration No. 31,560; and
Paul Tsou, Registration No. 37,956.

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ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION
SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA,
VIRGINIA 22320. TELEPHONE: (703) 836-6400.

Jan. 30, 2002
Date

Masashi Kamiya
Signature

Typed Name: Masashi Kamiya

Title: General Manager



APPENDIX A

<u>U.S. Patent Application Serial No.</u>	<u>Filed</u>	<u>Oliff & Berridge, PLC Docket No.</u>	<u>Reel/Frame No.</u>
09/736,251	December 15, 2000	111275	011366/0518
09/576,631	May 24, 2000	111338	010823/0867
09/620,906	July 20, 2000	111339	010954/0395
09/740,038	December 20, 2000	111340	011711/0918
09/742,292	December 22, 2000	111341	011654/0986
09/466,477	December 17, 1999	111347	010468/0948

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BOX ASSIGNMENTS

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RECORDATION FORM COVER SHEET

PATENT APPLICATIONS & PATENTS ONLY

TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Keiji TAKAHASHI
3. Makoto TANIGUCHI
5.
7.

2. Toshinori MARUYAMA
4.
6.
8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8861 Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

<input checked="" type="checkbox"/> ASSIGNMENT OF	<input checked="" type="checkbox"/> WHOLE	<input type="checkbox"/> PART INTEREST
<input checked="" type="checkbox"/> ORIGINAL	<input type="checkbox"/> FACSIMILE/PHOTOCOPY	
<input type="checkbox"/> CHANGE OF NAME	<input type="checkbox"/> VERIFIED TRANSLATION	
<input type="checkbox"/> SECURITY	<input type="checkbox"/> MERGER	<input type="checkbox"/> OTHER:

EXEC. DATE: June 29, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY) June 29, 2001

4.5 APPL. NO.(S) OR PAT NO.(S), OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT. APP. NO.(S) series code/serial no.	M#	INVENTOR if not in Item 1	B. PATENT NO(S)	M#	INVENTOR if not in Item 1
09/891,222	281490				

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
Intellectual Property Group
1800 Tysons Boulevard
McLean, VA 22102

6. NUMBER INVOLVED:
APPLNS 1 + PATS 0 = TOTAL = 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL x \$40 = \$40

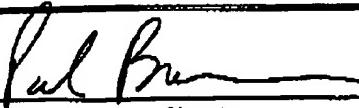
6.5 ATTY DKT: Tel: (703) 905-2000

P 281490	60303-US-SUS	IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975
MATTER NO.	CLIENT REF.	UNDER ORDER NO 30954 281490
		DUP. SHEET NOT REQUIRED

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975
UNDER ORDER NO 30954 281490

MATTER NO.	CLIENT REF.	DUP. SHEET NOT REQUIRED	CLIENT NO.	MATTER NO.
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9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

		10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)	2
Signature Attorney: Paul T. Bowen Reg. No. 38009 Atty/Sec: PTB/vaw		Date: October 29, 2001 FAX: (703) 905-2500	
TEL: (703) 905-2020 FILE WITH PTO RETURN RECEIPT (PAT-103A)			

Please return signed/recorded to:

Pillsbury Winthrop LLP

**Intellectual Property Group
1100 New York Avenue, NW
Ninth Floor
Washington, DC 20005-3918**

USA Patent Appln.
Sole or Joint

Conventions made outside USA

executed with or after application

Attn. Dkt PW 60303-US-

SUS/ob

— 8 —

三

Client Ref.

NONPROVISIONAL

**ASSIGNMENT
OF NONPROVISIONAL APPLICATION**

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT NAME(S) OF INVENTOR(S)	(1) Keiji TAKAHASHI (3) Makoto TANIGUCHI (5)	(2) Toshinori MARUYAMA (4) <input type="checkbox"/> x box if continued on page 2
-------------------------------------	--	--

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT **DENSO CORPORATION**
NAME(S) OF 1-1, Shōwa-cho, Karlya-city, Aichi-pref., 448-8661 Japan
ASSESSEE(S)
& ADDRESS(ES)

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutions, and reissues thereof; and all resulting patents, known as

TITLE OF INVENTION VOLTAGE REGULATOR OF VEHICLE AC GENERATOR

for which the undersigned executed an application for Letters Patents of the United States of America:

NOTE → → (A) even date herewith
(Complete
line A, B and/or C) (B) on _____
(C) in U.S. Appln. No. / filed _____

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → The undersigned hereby authorize(s) Pilley Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTORS

1): Keiji Takahashi
Name: Keiji TAKAHASHI

2) Toshinori Maruyama
Name: Toshinori MARUYAMA

3) Makoto Taniguchi
Name: Makoto TANIGUCHI

4)

5)

Name:

<u>DATE SIGNED</u>	<u>WITNESSES</u>
June, 29, 2001	Hiroshi Ishida
June 29, 2001	Hiroshi Ishida
June, 29, 2001	Hiroshi Ishida

BOX ASSIGNMENTS

DO NOT USE FOR TRADEMARKS

TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS:
 SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Naoki YAMAMOTO
 3. Hitoshi IRIE
 5.
 7.

2. Makoto TANIGUCHI
 4.
 6.
 8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: DENSO CORPORATION

ADDRESS: 1-1, Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

ASSIGNMENT OF WHOLE PART INTEREST
 ORIGINAL FACSIMILE/PHOTOCOPY
 CHANGE OF NAME VERIFIED TRANSLATION
 SECURITY MERGER OTHER:

EXEC. DATE: August 6, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY) August 6, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

APPL. NO./PAT. NO.	INVENTOR	PATENT NO.	INVENTOR	PATENT NO.
--------------------	----------	------------	----------	------------

09/925,373	282781			
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5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
 Intellectual Property Group
 1600 Tysons Boulevard
 McLean, VA 22102

6. NUMBER INVOLVED:
 APPLNS 1 + PATS 0 = TOTAL = 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)
 ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT: Tel: (703) 905-2000

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
 INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: Q3-3975

P 282781 57249-US-SN/nh

UNDER ORDER NO 30954 282781

MATTER NO.

CLIENT REF.

dup. sheet not required

CLIENT NO.

MATTER NO.

9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Signature

Attorney: Paul T. Bowen

Reg. No. 38009

Atty/Sec: PTB/ew

TEL: (703) 905-2020

10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)

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Date: October 29, 2001

FAX: (703) 905-2500

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Intellectual Property Group
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Washington, DC 20005-3918

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Sole or Joint

For inventions made outside USA
executed with or after application

Atty. Dkt. PW 57249-US-SN/nh
MW Client Ref.

NONPROVISIONAL

ASSIGNMENT
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT NAME(S) OF INVENTOR(S)	(1) Naoki YAMAMOTO (3) Hitoshi IRIE (5)	(2) Makoto TANIGUCHI (4) <input type="checkbox"/> x box if continued on page 2
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the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT NAME(S) OF ASSESSOR(S) & ADDRESS(ES)	DENSO CORPORATION 1-1, Showa-cho, Karuha-city, Aichi-pref., 448-8661 Japan
--	---

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF INVENTION	VOLTAGE CONTROL APPARATUS FOR VEHICLE AC GENERATOR
-----------------------	--

for which the undersigned executed an application for Letters Patents of the United States of America;

NOTE → → (Complete line A, B and/or C)	(A) <input checked="" type="checkbox"/> even date herewith (B) <input type="checkbox"/> on _____ (C) <input type="checkbox"/> In U.S. Appln. No. _____ / filed _____
--	--

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE's full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

	INVENTORS	DATE SIGNED	WITNESSES
1):	Naoki Yamamoto	August 6, 2001	Hiroyuki Nakada
Name:	Naoki YAMAMOTO		
2):	Makoto Taniguchi	August, 6, 2001	Hiroyuki Nakada
Name:	Makoto TANIGUCHI		
3):	Hitoshi Irie	August, 6, 2001	Hiroyuki Nakada
Name:	Hitoshi IRIE		
4):			
Name:			
5):			
Name:			

BOX ASSIGNMENTS

RECOGNITION FROM CONVEYING PARTY PATENT AND TRADEMARK OFFICE TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.													
<p>1. NAME OF CONVEYING PARTY(IES) (ASSIGNOR(S)):</p> <p>1. Makoto TANIGUCHI 2. Keiji TAKAHASHI 3. Toshinori MARUYAMA 4. 5. 6. 7.</p> <p>ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>													
<p>2. PARTY(ES) (ASSIGNEE(S)) RECEIVING INTEREST: NAME: DENSO CORPORATION</p>													
<p>ADDRESS: 1-1 Showa-cho, Kariya-city, Aichi-pref., 448-8881 JAPAN</p> <p>ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>													
<p>3. NATURE OF CONVEYANCE (DOCUMENT): (Submit herewith <u>only one document</u> for recordation—multiple copies of same Assignment signed by different inventors is one document)</p> <p><input checked="" type="checkbox"/> ASSIGNMENT OF <input checked="" type="checkbox"/> WHOLE <input type="checkbox"/> PART INTEREST <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> FACSIMILE/PHOTOCOPY <input type="checkbox"/> CHANGE OF NAME <input type="checkbox"/> VERIFIED TRANSLATION <input type="checkbox"/> SECURITY <input type="checkbox"/> MERGER <input type="checkbox"/> OTHER</p> <p>EXEC. DATE: June 28, 2001</p>													
<p>4. EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY) June 28, 2001</p> <p>4.5 APPL. NO.(S) OR PAT. NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>													
<table border="1"> <tr> <td>4.6 DATE RECEIVED</td> <td>5. INVENTOR</td> <td>6. PAPERWORK FEE</td> <td>7. AMOUNT OF FEE ENCLOSED</td> </tr> <tr> <td>June 28, 2001</td> <td></td> <td></td> <td></td> </tr> <tr> <td>NEW APPLICATION</td> <td>0281516</td> <td></td> <td></td> </tr> </table>		4.6 DATE RECEIVED	5. INVENTOR	6. PAPERWORK FEE	7. AMOUNT OF FEE ENCLOSED	June 28, 2001				NEW APPLICATION	0281516		
4.6 DATE RECEIVED	5. INVENTOR	6. PAPERWORK FEE	7. AMOUNT OF FEE ENCLOSED										
June 28, 2001													
NEW APPLICATION	0281516												
<p>5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:</p> <p>Pillsbury Winthrop LLP Intellectual Property Group 1600 Tysons Boulevard McLean, VA 22102</p>													
<table border="1"> <tr> <td>5.5 ATTY DKT:</td> <td>6. NUMBER INVOLVED: APPLNS 1 + PATS 0 = TOTAL 1</td> </tr> <tr> <td>P 0281516</td> <td>7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40</td> </tr> <tr> <td>MATTER NO.</td> <td>8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO 030954 0281516 cup sheet not required CLIENT NO MATTER NO.</td> </tr> </table>		5.5 ATTY DKT:	6. NUMBER INVOLVED: APPLNS 1 + PATS 0 = TOTAL 1	P 0281516	7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40	MATTER NO.	8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO 030954 0281516 cup sheet not required CLIENT NO MATTER NO.						
5.5 ATTY DKT:	6. NUMBER INVOLVED: APPLNS 1 + PATS 0 = TOTAL 1												
P 0281516	7. AMOUNT OF FEE ENCLOSED: (Code 581) ABOVE TOTAL x \$40 = \$40												
MATTER NO.	8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975 UNDER ORDER NO 030954 0281516 cup sheet not required CLIENT NO MATTER NO.												
<table border="1"> <tr> <td>9. </td> <td>10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet) 2</td> </tr> </table>		9. 	10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet) 2										
9. 	10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet) 2												
<table border="1"> <tr> <td>Signature Attorney: Paul T. Bowen Reg. No. 38009 Atty/Sec: PTB/BSI</td> <td>Date: July 6, 2001 TEL: (703) 905-2020 FAX: (703) 905-2500</td> </tr> </table>		Signature Attorney: Paul T. Bowen Reg. No. 38009 Atty/Sec: PTB/BSI	Date: July 6, 2001 TEL: (703) 905-2020 FAX: (703) 905-2500										
Signature Attorney: Paul T. Bowen Reg. No. 38009 Atty/Sec: PTB/BSI	Date: July 6, 2001 TEL: (703) 905-2020 FAX: (703) 905-2500												
<p>FILE WITH PTO RETURN RECEIPT (PAT-103A)</p>													

